

Grevillea,

A MONTHLY RECORD OF CRYPTOGAMIC BOTANY
AND ITS LITERATURE.

NOTICES OF NORTH AMERICAN FUNGI.

By the Rev. M. J. BERKELEY, M.A., F.L.S.

(Continued from Page 53.)

376. **Phoma macropus.** *B. & C.*—Subcuticulare, peritheciis sparsis ; sporophoris flexuosis sporis oblongis 5-6 longioribus. On the white shoots of some shrub. Scattered, tearing off with the cuticle ; scattered, collapsed ; sporophores waved, 5-6 times longer than the short oblong spores. Nearly allied to the last, but distinct.

377. **Phoma Petersii.** *B. & C.*—Erumpens, demum superficiale, hysteriforme in lignum dealbatum situm, sporis ellipticis, binucleatis. On wood which has been exposed to the weather, and has become bleached. Alabama, Peters. No. 5234.

Scattered, hysteriform, erumpent, then free ; spores elliptic, ·0003 long, with two nuclei. Distinct from *Phoma epileucum*, B., in which the spores are ·00015 long, and not so elliptic.

378. **Phoma citrulli.** *B. & C.*—Deplanatum superficiale, sporophoris sporis fusiformibus bi-trinucleatis brevioribus. On seeds of water melon. Car. Inf. No. 5031.

Flat, superficial, sporophores shorter than the fusiform 2-3 nucleate spores, ·0008 long.

379. **Phoma cucurbitale.** *B. & C.*—Sparsum deplanatum nitidum ; sporis breviter oblongis binucleatis minutis. On seeds of water melon.

Scattered, shining, flat ; spores minute, oblong, binucleate, ·0002-·00025 long.

380. **Phoma ampelinum.** *B. & C.*—Subcuticulare hysteriforme, sporis fusiformibus. On shoots of vine. Pennsylvania, Michener. No. 4094.

Growing beneath the cuticle which swells into little hysteriform pustules ; spores oblong, subfusiform, ·0005 long.

381. **Phoma pallens.** *B. & C.*—Subcuticulare hysteriforme ; sporophoris sporis utrinque apiculatis sub-aequalibus. On shoots of vine which it renders pallid. Car. Inf. No. 5015. Also on *Celastrum scandens*. Penn. Michener. No. 4127.

Growing beneath the cuticle, sporophores equal in length to the spores which are oblongo-fusiform pointed at either end, ·0002-·0003 long.

382. **Phoma uvicola.** *B. & C.*—Irregularare cuticulâ anguste cinctum, sporis oblongis. On berries of *Vitis*. Car. Inf. No. 3286.

Produced beneath the cuticle, through which it bursts, and by which it is surrounded ; spores oblong, ·0003 long.

383. **Phoma confluens.** *B. & C.*—Maculis elevatis marginatis, peritheciis confluentibus ; sporis brevibus. On branches of vine. No. 5616.

Forming little raised hysteriform spots with a distinct margin. Perithecia black, confluent ; spores shortly oblong, ·0002 long.

384. **Phoma ustulatum.** *B. & C.*—Maculis helvolis, peritheciis punctiformibus ; sporis utrinque attenuatis. On leaves of *Vitis aestivalis*. No. 4842.

Spots broad, red-brown ; perithecia minute punctiform ; spores attenuated at either end, shortly fusiform, ·0003 long.

* **Phoma radula.** *B. & Br.*—Pennsylv. Michener. No. 4049. On pear. Car. Inf. No. 4998. Spores subfusiform, ·0005 long.

385. **Phoma Phytolaccæ.** *B. & C.*—Subcuticula dealbata oriundum ; sporis fusiformibus binucleatis. On *Phytolacca*. New Jersey. No. 4702.

Black shining, covered with the bleached cuticle ; spores fusiform binucleate, ·0004 long, resembling those of *P. pallens*.

386. **Phoma helvolum.** *B. & C.*—Maculis helvolis definitis ; peritheciis minutis ; sporis minimis. On leaves of some Anonaceous plant. Texas, C. Wright. No. 3901.

Spots definite with a distinct margin reddish brown, perithecia minute ; spores shortly oblong, ·0001 long.

* **Phoma concentricum.** *Desm.*—On *Yucca*. New England, Russell. No. 5973. Penns., Michener. No. 4141, 4164. Alabama, Peters. No. 4569.

387. **Phoma melaleucum.** *B. & C.*—Subcuticulare nitidum e macula albida oriundum, sporis oblongis. On berberry. New England, Sprague. No. 5274. On *Magnolia tripetala*. Pennsylvania, Michener. No. 4096. On *Aralia spinosa*. Alabama, Peters. No. 5185.

Growing on a pallid spot, subcuticular, shining ; spores oblong, ·0003 long. In No. 5274 the spores are rather narrower and ·0004 long.

388. **Phoma mixtum.** *B. & C.*—Subcorticale sero liberatum, sporophoris sporis utrinque apiculatis sub æqualibus, processibus filiformibus apice curvatis intermixtis. On *Liriodendron*. Car. Inf. No. 4963. On *Viburnum opulifolium*. Penns., Michener. No. 4174.

Produced under the bark in which it forms little pustules, at

length free; sporophores about equal in length to the spores which are shortly fusiform, .00025 long, mixed with filiform processes, about three times as long, curved at the tips.

* **Phoma fibricola.** *B.*—On whitened wood of *Populus dilatata*. Penns., Michener. No. 4241.

389. **Phoma maculare.** *B. & C.*—Maculis orbicularibus brunneis immarginatis peritheciis irregularibus; sporis oblongis subcymbiformibus. On leaves of *Diplopappus*. Alabama, Beaumont. No. 4661.

Forming brown orbicular spots, in the centre of which are seated the irregular perithecia; spores oblong subcymbiform. .0004 long.

390. **Phoma chartarum.** *B. & C.*—Sparsum e subiculo tenero byssideo oriundum, sporis minimis.

On white paper. Alabama, Beaumont. No. 5106. Perithecia scattered, each springing from some delicate radiating threads; spores very minute, .00012 long, sometimes ejected in the form of a tendril.

There are also a great many other forms in the collection which can scarcely be characterised as there are no very distinctive marks in the spores.

391. **Phoma cinctum.** *B. & C.*—Irregularare depresso materie alba cinctum, sporis oblongis angustis.

On leaves of *Ulmus Americana*. Car. Inf. No. 3791. Perithecia irregular, depressed, surrounded by a white border; spores oblong, narrow, .00027.

* **Leptothyrium Ribis.** *Libert.*—On *Ribes nigrum*. Connecticut. C. Wright. No. 5639. New England. Russell. No. 5943.

In the former the spores are wider at one end, slightly curved, .0008-.0006; in the latter often more curved, and then not dilated at one end, .001 long.

392. **Leptothyrium Celastri.** *B. & C.*—Superficiale orbiculare gregarium, sporis cylindricis.

On twigs of *Celastrum*. New England. Murray. No. 6270. Forming little black orbicular superficial specks; spores cylindrical, .001 long.

* **Leptothyrium Fragariae.** *Libert.*—Sprague. No. 6241.

393. **Leptothyrium Lychnidis.** *B. & C.*—Maculis pallidis; peritheciis punctiformibus; sporis oblongis utrinque irregularibus.

On *Lychnis Flos cuculi*. Alabama. Peters. No. 4544. Spot pallid, perithecia very minute; spores oblong, hollowed out on either side, .0004 long.

394. **Leptothyrium punctiforme.** *B. & C.*—Sparsum minutum superficiale; sporis oblongis curvalis.

On leaves of *Erigeron*. Massachussets. No. 3387. Scattered

over the under surface without any spot; perithecia punctiform; spores oblong, more or less curved, .0008 long.

395. **Cryptosporium noveboracense.** *B. & C.*—Peritheciis deplanatis fuscis sporophoris brevibus, sporis lunatis.

On bark of *Abies*. Mountains of New York. No. 4502. Forming little flat pustules, sporophores scarcely half so long as the crescent-shaped spores, .001 long.

396. **Cryptosporium Pini.** *B. & C.*—Peritheciis papillæformibus nigris; sporophoris triplo sporis angustis curvatis uniseptatis brevioribus.

On smooth pine bark. New England. Sprague. No. 5270. Perithecia papillæform, black, at length rupturing the cuticle; sporophores about $\frac{1}{3}$ as long as the narrow crescent-shaped at length uniseptate spores attenuated at either end, .003 long.

397. **Cryptosporium flicinum.** *B. & C.*—Nitidum hysteriforme; sporophoris duplo sporis curvatis filiformibus brevioribus.

On dead ferns. Alabama. Peters. No. 4008. On *Osmunda cinnamomea*. Penns. Michener. No. 4884. Shining hysteriform; sporophores half as long as the thread-like curved spores, which are variable in length.

In appearance it approaches *Leptostroma*, but differs in the more highly developed spores.

* **Sphæronema rufum.** *Fr.*—On *Magnolia glauca*. Car. Inf. No. 4923.

398. **Sphæronema echinatum.** *B. & C.*—Peritheciis globosis; collo longo processibus echiniformibus subverticillatis ornatum; sporis filiformibus curvalis.

On twigs of *Rhododendron*. Mountains of New York. No. 4464. Perithecia minute, globose, with a long neck clothed in a verticillate manner with stiff spines; spores filiform slightly curved.

399. **Sphæronema penicillatum.** *B. & C.*—Peritheciis elongatis ventricosis e basi orbiculari oriundis, collo longo penicillato.

Car. Inf. On dead wood. No. 2134. Perithecia springing from an orbicular base, above which it is first contracted, then ventricose, ending in a long neck which is clothed with loose hairs.

400. **Sphæronema metulæforme.** *B.*—Peritheciis fuscis metulæformibus, collo breviore apice penicellato albo.

On *Cornus florida* with *Perichaena populina*, Fr. Car. Inf. No. 2515. Perithecia ninepin-shaped, brown, base contracted, neck about two-thirds as long, white, with a pencil of articulated threads.

401. **Sphæronema epiglæum.** *B. & C.*—Peritheciis globosis, collo cylindrico.

On some *Tremella*, which runs up the sides of the neck and upper portion of the perithecium, which is globose, gradually passing into the cylindrical neck.